

Comparisons of Job Characteristics

Focus Occupation: [Metal-Refining Furnace Operators and Tenders \(51-4051\)](#)

Associated Occupation: [Forging Machine Setters, Operators, and Tenders, Metal and Plastic \(51-4022\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	12.6	9.8	<< Extensive education and/or training may be required
Production and Processing	6.0	10.9	13.1	> Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	9.7	12.2	> Skill level is likely sufficient
Quality Control Analysis	5.9	8.8	9.2	0 Current skill level may be sufficient
Operation and Control	5.4	8.7	11.9	>> Skill level is likely more than sufficient
Troubleshooting	4.5	7.6	6.7	< A higher skill level may be required
Equipment Maintenance	3.5	5.9	7.1	> Skill level is likely sufficient
Repairing	3.4	5.6	5.9	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)
Associated Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Near Vision	11.1	10.6	11.1	0	Current ability level may be sufficient
Control Precision	6.6	10.5	12.3	>	Current ability level is likely sufficient
Oral Comprehension	12.5	9.7	8.3	<	Some improvement in abilities may be required
Oral Expression	12.4	9.7	8.3	<	Some improvement in abilities may be required
Written Comprehension	11.0	9.5	7.4	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	9.2	10.2	>	Current ability level is likely sufficient
Arm-Hand Steadiness	6.8	9.1	10.2	>	Current ability level is likely sufficient
Rate Control	3.8	8.3	9.0	0	Current ability level may be sufficient
Auditory Attention	5.9	8.1	9.3	>	Current ability level is likely sufficient
Reaction Time	4.8	7.5	10.6	>>	Current ability level is likely more than sufficient
Speed of Limb Movement	3.2	5.3	7.0	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)
Associated Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Examine products or work to verify conformance to specifications	15
Load or unload material or workpiece into machinery	34
Measure, weigh, or count products or materials	17
Monitor production machinery/equipment operation to detect problems	27
Move or fit heavy objects	8
Operate ore refining/foundry equipment/machinery	84
Perform safety inspections in manufacturing or industrial setting	33
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: n/a

Focus Occupation: Metal-Refining Furnace Operators and Tenders (51-4051)

Associated Occupation: Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.